

YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT

1947 Galileo Court, Suite 103; Davis, CA 95618

Phone (530) 757-3650 Fax (530) 757-3670

FACILITY NUMBER: 05010

SIC CODE: 9223

AUTHORITY TO CONSTRUCT

C-13-34

IS HEREBY GRANTED TO

CALIFORNIA STATE PRISON - SOLANO

P.O. Box 640

Vacaville, CA 95696

EQUIPMENT LOCATION: 2100 Peabody Road (Building 301); Vacaville, CA

TO CONSTRUCT

PROCESS DESCRIPTION: Boiler: Space Heating

EQUIPMENT INVENTORY: One (1) 1.25 MMBtu natural gas fired Raypak boiler, Model No. MVB H7-1253, Serial No. TBD

- Total Billing: Schedule 2, 1.25 MMBtu/hr -

CONTROL EQUIPMENT INVENTORY:

Low NOx burner

PERMITTED EMISSION LIMITS:

	Daily	Qtr #1 (Jan 1-Mar 31)	Qtr #2 (Apr 1-June 30)	Qtr #3 (July 1-Sept 30)	Qtr #4 (Oct 1-Dec 31)	Yearly
Pollutant	[lb]	[lb]	[lb]	[lb]	[lb]	[tons]
VOC	0.2	11	11	11	11	0.02
CO	2.5	173	173	173	173	0.35
NO _x	0.7	50	50	50	50	0.10
SO _x	Neg.	1	1	1	1	Neg.
PM ₁₀	0.2	16	16	16	16	0.03

PERMITTED PROCESS LIMITS:

	Daily	Qtr #1 (Jan 1-Mar 31)	Qtr #2 (Apr 1-June 30)	Qtr #3 (July 1-Sept 30)	Qtr #4 (Oct 1-Dec 31)	Yearly
	[million cubic feet]	[million cubic feet]	[million cubic feet]	[million cubic feet]	[million cubic feet]	[million cubic feet]
Natural Gas	0.03	2.061	2.061	2.061	2.061	8.244

The following information is included to inform and assist the Permit Holder in achieving compliance with applicable provisions of Federal, State, and District Rules and Regulations. The following set of referenced regulations are not intended to be either comprehensive or exclusive, nor are they intended to be emission limiting permit conditions, but they are still applicable rules of the District. Occasionally laws are amended. The amended versions of the referenced rules shall be deemed to be in effect. **It is the Permit Holder's responsibility to comply with all applicable Rules and Regulations.**

1. The Permit Holder shall submit the Permit Notification Card after completing construction, installation, initial adjustment, or shakedown, and no later than 48 hours after beginning actual operation of the equipment listed in the Authority to Construct (ATC). For modifications of existing permits not requiring a physical change, the Permit Holder shall submit the Permit Notification Card no later than 48 hours after beginning operation of the equipment under the revised conditions of this ATC. The Permit Notification Card serves as the Permit to Operate (PTO) application, while the ATC and its conditions shall function as a temporary PTO until the final PTO is issued or denied. Operation beyond the shakedown period and the allowable 48 hours of actual operation without the submission of a Permit Notification Card will be considered operation without a valid permit and may be subject to enforcement action. [District Rule 3.1, §402]
2. The District requires an inspection of the equipment after completion of the construction and prior to the issuance of the Permit to Operate. [District Rule 3.1, §402]
3. An authorization to construct shall remain in effect only until the application for Permit to Operate is granted or denied; however, such an authorization shall not remain in effect beyond two years from the date of issuance unless the District finds that the time required for construction requires an extension and grants one or more extensions, for a total time not to exceed five years from the date of issuance. [District Rule 3.1, §407]

The following set of conditions are established by the District to provide enforceable operating parameters as authorized by California Health and Safety Code Section 42301 and District Rule 3.1, Section 402. If any of the rules and regulations referenced below are amended subsequent to the issuance date of this permit, resulting in the amended rule differing from or superseding the corresponding condition, then the Permit Holder shall be required to comply with the amended rule or regulation and shall no longer be required to comply with the superseded condition.

4. The Permit Holder shall not discharge into the atmosphere from any single source of emissions whatsoever, any air contaminant for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:
 - a. As dark or darker in shade than No. 1 on the Ringelmann Chart; or
 - b. Greater than 20% opacity. [District Rule 3.4]

5. The Permit Holder shall not release into the atmosphere from any single source operation, particulate matter in excess of 0.1 grains per cubic foot of exhaust. [District Rule 2.11]
6. The Permit Holder shall only fire the boiler on Public Utility Commission (PUC) grade pipeline natural gas. [District Rule 3.4]
7. The NO_x emission concentration shall not exceed 20 parts per million by volume (ppmv) corrected to 3% O₂. [District Rule 3.4]
8. The Permit Holder shall monitor and record the cumulative quarterly and annual natural gas fuel usage (in cubic feet). The records shall be updated quarterly and made available to the District upon request. [District Rule 3.4]
9. All required records shall be retained for a minimum of five (5) years and shall be made available for District inspection upon request. [District Rule 3.8, §302.6(b)]

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the Health & Safety Codes of the State of California or the Rules and Regulations of the Yolo-Solano Air Quality Management District.

Mat Ehrhardt, P.E.
AIR POLLUTION CONTROL OFFICER

By: _____

Date of Issuance: _____

ADM